

M/035/0009

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MAR 16 2015

Div. of Oil, Gas & Mining

Table 1 Cleanup Response Activities

ID	Work Area	Activity	Planned Target		Status	Comments
			Start	Finish		
1A	Segment 1	Additional sampling on the West Jordan property	4/1/2014	5/16/2014	Complete	The distribution of mine waste sediment shall be based on visual observation, XRF analysis of soils for arsenic and lead, and laboratory analysis on select confirmation samples for arsenic and lead.
1B	Segment 1	Draft a Characterization/Removal work plan	4/1/2014	4/17/2014	Complete	Plan provided as dictated in the DOGM Division Directive
1C	Segment 1	Site visit with DWQ, DOGM and DERR	4/9/2014			Allow regulators an opportunity to see the site in person and ask questions.
1D	Segment 1	Regulatory review of Cleanup Plan - Segment 1	4/18/2014	4/30/2014	Complete	Submission of joint review between the three agencies
1E	Segment 1	Obtain comments from DOGM, DWQ and DERR	4/22/2014	4/30/2014	Complete	Obtain comments from the agencies on Cleanup plan
1F	Segment 1	Revise work plan and address Agencies comments	4/22/2014	5/14/2014	Complete	Resubmittal for joint review between the three agencies
1G	Segment 1	Obtain Regulatory approval of Cleanup Plan - Segment 1	4/21/2014	7/3/2014	Complete	Regulatory approval of recommended action levels for arsenic, excavation and removal of material, transportation of material, final deposition of removed material, and restoration of the drainage.
2A	Segment 1	Increase desilting capacity at the Kennecott property line	7/7/2014	7/8/2014	Complete	Initial step is to prevent additional mine waste sediment from migrating off Rio Tinto property.
2B	Segment 1	Remove sediments from - Segment 1	7/9/2014	7/15/2014	Complete	The removal of mine waste sediment will commence just downstream of the desilting basins that are to be constructed. From this point the removal will continue downstream to the property line, thus preventing further migration of mine waste sediment off of Rio Tinto property.
1F	Segments 2-4	Submission of Cleanup plan for - Segments 2 - 4	7/18/2014	11/20/2014	Complete	Plan provided as dictated in the DOGM Division Directive.
2C	Segment 1	Reconstruct riprapped channel in - Segment 1	9/15/2014	9/23/2014	Complete	Replacement of Riprap material will be further protect the stream bottom from erosion and restore the site to its previous condition.
1G	Segments 2-4	Obtain Regulatory approval of work plan	12/19/2014	12/19/2014	Complete	Regulatory approval of recommended action levels for arsenic, excavation and removal of material, transportation of material, final deposition of removed material, and restoration of the drainage.
2D	Segment 1	Reseed impacted areas in - Segment 1	9/23/2014	9/23/2014	Complete	Revegetating immediately downstream of the desilting basins will minimize offsite migration of fines during a storm event.
3A	Segments 2-4	Remove sediments from - Segments 2-4	7/21/2014	9/11/2014	Complete	Removal of sediments found upstream of the desilting basins will minimize the loading and the maintenance of the basins.
3B	Segments 2-4	Reconstruct drainage channel - Segments 2-4	7/28/2014	11/26/2014	Complete	Regrading of the disturbed area will allow for natural water flow and will be done concurrent with removal.
3C	Segments 2-4	Reseed impacted areas in - Segments 2-4	11/18/2014	11/26/2014	Complete	Revegetation of the drainage found upstream of the desilting basins will minimize the loading and the maintenance of the basins.
4A	Segments 1-4	Submit post removal report	11/27/2014	2/6/2015	Complete	Detailed report giving removal quantities as well as the test results of the cleaned surface. - This work is in process and progressing on time.
4B	Segments 1-4	Obtain Regulatory approval of post removal report	2/6/2015		In Process	Regulatory approval of the post removal report
4C	Segments 1-4	Inspect leach pads and stormwater controls daily until permanent controls are installed	4/1/2014		In Process	Includes daily inspection of all five leach pads and the associated stormwater controls until approval is obtained to decrease the frequency

Projected dates

* Monthly project updates will be provided on the 15th of each month, until the cleanup is complete. If Barneys deviates from the attached schedule, Barneys and Agencies will discuss any needed action at the agencies request.

KENNECOTT BARNEYS CANYON MINING CO

February 2015

HEAP AND DRAINAGE INSPECTION

HEAPS: SLOPES AND CONTAINMENTS

PROPERTY CONTAINMENT

DATE	BC-1	BC-2	BC-3	BC-4	BC-5	B&G	NORTH	SOUTH	EAST	COMMENTS	
1	-	-	-	-	-	-	-	-	-	Weekend, No inspection	TN
2	OKAY	OKAY	OKAY	OKAY	OKAY	OKAY	OKAY	OKAY	OKAY		TV
3	OKAY	OKAY	OKAY	OKAY	OKAY	OKAY	OKAY	OKAY	OKAY		TV
4	OKAY	OKAY	OKAY	OKAY	OKAY	OKAY	OKAY	OKAY	OKAY		TV
5	OKAY	OKAY	OKAY	OKAY	OKAY	OKAY	OKAY	OKAY	OKAY		TV
6	OKAY	OKAY	OKAY	OKAY	OKAY	OKAY	OKAY	OKAY	OKAY		TV
7	-	-	-	-	-	-	-	-	-	Roads getting better	TV
8	-	-	-	-	-	-	-	-	-	Weekend, No inspection	TH
9	OKAY	OKAY	OKAY	OKAY	OKAY	OKAY	OKAY	OKAY	OKAY	Weekend, No inspection	TH
10	OKAY	OKAY	OKAY	OKAY	OKAY	OKAY	OKAY	OKAY	OKAY		TH
11	OKAY	OKAY	OKAY	OKAY	OKAY	OKAY	OKAY	OKAY	OKAY		TH
12	OKAY	OKAY	OKAY	OKAY	OKAY	OKAY	OKAY	OKAY	OKAY	Dry roads	TH
13	OKAY	OKAY	OKAY	OKAY	OKAY	OKAY	OKAY	OKAY	OKAY		TH
14	-	-	-	-	-	-	-	-	-		TH
15	-	-	-	-	-	-	-	-	-	Weekend, no inspection	-
16	OKAY	OKAY	OKAY	OKAY	OKAY	OKAY	OKAY	OKAY	OKAY	Weekend, no inspection	-
17	OKAY	OKAY	OKAY	OKAY	OKAY	OKAY	OKAY	OKAY	OKAY		TN
18	OKAY	OKAY	OKAY	OKAY	OKAY	OKAY	OKAY	OKAY	OKAY		TN
19	OKAY	OKAY	OKAY	OKAY	OKAY	OKAY	OKAY	OKAY	OKAY		TN
20	OKAY	OKAY	OKAY	OKAY	OKAY	OKAY	OKAY	OKAY	OKAY		TN
21	-	-	-	-	-	-	-	-	-		TH
22	-	-	-	-	-	-	-	-	-	Weekend, No inspection	
23	OKAY	OKAY	OKAY	OKAY	OKAY	OKAY	OKAY	OKAY	OKAY	Weekend, No inspection	
24	OKAY	OKAY	OKAY	OKAY	OKAY	OKAY	OKAY	OKAY	OKAY		TV
25											
26											
27											
28											
29											
30											
31											

NC = No Change in Conditions

Barneys Canyon Heap Pad and Drainage Inspection

Month: February 2015

Date	BC1	BC2	BC3	BC4	BC5	North Perimeter	South Perimeter	East/B&G Perimeter	Inspector	Comments/Corrective Actions
1										
2										
3										
4										
5										
6										
7										
8										
9										
10										
11										
12										
13										
14										
15										
16										
17										
18										
19										
20										
21										
22										
23										
24	1	1	1	1	1	1	1	1	TMN	Started using new inspection form
25	1	1	1	1	1	1	1	1	TMN	
26	1	1	1	1	1	1	1	1	TMN	light snow
27	1	1	1	1	1	1	1	1	JMH	some snow, muddy roads
28										
29										
30										
31										

Heap Leach Pads (BC1 thru BC5):

- 1 No heap material or liquids flowing off the lined pad
- 2 Heap material flowing off the lined pad
- 3 Liquids flowing off the lined pad

Perimeter Drainage:

- 1 Perimeter drainage in good order and containment of storm water behind permitted dams
- 2 Uncontained perimeter drainage
- 3 Moderate to significant erosion to perimeters

Barneys Canyon Heap Pad and Drainage Inspection

Month: **March 2015**

Date	BC1	BC2	BC3	BC4	BC5	North Perimeter	South Perimeter	East/B&G Perimeter	Inspector	Comments/Corrective Actions
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1										
2									TH	Snowing / Fog. Pads wet. No flowing liquids
3									JCB	heavy snow, partial inspection
4									TH	snowy. some liquid flowing from snow melt on top of berm but none visible from north pad.
5									TH	muddy melting snow
6									JH	muddy, mostly melting snow
7	-	-	-	-	-	-	-	-	-	No inspection, weekend
8	-	-	-	-	-	-	-	-	-	No inspection, weekend
9									TN	roads drying out
10									TN	No issues.
11									TN	No issues
12									TN	light rain.
13									JH	Roads dried, good conditions
14										
15										
16										
17										
18										
19										
20										
21										
22										
23										
24										
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29										
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